

**Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
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Draft

**AIR QUALITY PERMIT
Issued under 401 KAR 52:030**

Permittee Name: Quebecor World, Inc.
Mailing Address: 100 U.S. Bypass 60
Versailles, KY 40384-1496

Source Name: Quebecor World, Inc.
Mailing Address: Same as Above

Source Location: Same as Above

Permit Number: F-06-015
Source A. I. #: 4238
Activity #: APE20040001
Review Type: Federally-Enforceable Conditional Major
Source ID #: 21-239-00005

Regional Office: Frankfort Regional Office
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Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 50:030, Federally-enforceable permits for non-major sources.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**Indirect Heating Units**

Emission Point	Description	Fuel Used	Maximum Continuous Rating	Construction Date
01 (01)	Boiler	Natural Gas	14.645 mmBtu/hr	1962
02 (02)	Boiler	Natural Gas	14.645 mmBtu/hr	1968
03 (03)	Boiler	Natural Gas	5.21 mmBtu/hr	1969

APPLICABLE REGULATIONS:

401 KAR 61:015 – *Existing Indirect Heat Exchangers*, applicable to affected facilities with a capacity of 250 million Btu/hr heat input or less and constructed before April 9, 1972.

1. Operating Limitations:

None

2. Emission Limitations:

- a) Pursuant to 401 KAR 61:015, Section 4(1), emissions of particulate matter from the combustion of natural gas shall not exceed 0.68 lb/mmBtu, 0.58 lb/mmBtu and 0.56 lb/mmBtu for Boiler 01, Boiler 02 and Boiler 03, respectively, based on a three-hour average for each boiler.
- b) Pursuant to 401 KAR 61:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity based on a six minute average, shall be permissible for not more than six consecutive minutes in any 60 consecutive minutes during cleaning the fire-box or blowing soot.
- c) Pursuant to 401 KAR 61:015, Section 5(1), emissions of sulfur dioxide from the combustion of natural gas shall not exceed 3.56 lb/mmBtu, 2.88 lb/mmBtu and 2.74 lb/mmBtu for Boiler 01, Boiler 02 and Boiler 03, respectively, based on a 24-hour average for each boiler.

Compliance Demonstration Method:

- a) Compliance with the particulate emission limit is demonstrated when burning natural gas, based on an AP-42 emission factor of 7.6 lbs total particulates per million standard cubic feet (mmscf) of natural gas burned and a fuel heat capacity of 1020 mmBtu/mmscf.
- b) Compliance with the sulfur dioxide limit is demonstrated when burning natural gas, based on an AP-42 emission factor of 0.6 lbs of sulfur dioxide per mmscf and a fuel heat capacity of 1020 mmBtu/mmscf.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- c) Compliance with the opacity limit is demonstrated when burning natural gas.

3. Testing Requirements:

Pursuant to 401 KAR 61:005 Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

4. Specific Monitoring Requirements:

The permittee shall monitor and maintain records of the monthly natural gas usage rate (cubic feet) and the monthly hours of operation of each boiler.

5. Specific Recordkeeping Requirements:

- a) Monthly records of natural gas usage and boiler operating hours shall be kept for a period of five years.
- b) Records shall be maintained of and any necessary repairs, maintenance, inspection, calibration and/or replacement of combustion equipment.

6. Specific Reporting Requirements:

None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Lithographic Printing Presses

Thermal Oxidizer	EP	EU	Description	Heat Input Rating (mmBtu/hr)	Date Installed
Geoenergy #1 ¹	50			8.0	04/01/98
		06	#365 2/C Motter - Offset Lithographic Press with Natural Gas Fired Dryer	2.72	01/01/68
		11	#355 4/C Sheeter - Offset Lithographic Press with Natural Gas Fired Dryer	1.22	07/01/69
		13	#320 Schrieber 990 - 4/C Offset Lithographic Press with Natural Gas Fired Dryer	1.42	07/01/05
		34	#380 4/C Cottrell - Offset Lithographic Press with Natural Gas Fired Dryer	3.37	06/20/94
		49	#339 4/C Man-Roland - Offset Lithographic Press with Natural Gas Fired Dryer	2.4	06/08/98
		55	#341 4/C Harris M-1000 (B) - Offset Lithographic Press with Natural Gas Fired Dryer	2.8	04/12/02
		53	#345 4/C Harris M-300 - Offset Lithographic Press with Natural Gas Fired Dryer	1.2	04/01/02
Geoenergy #2 ²	52			8.0	09/01/01
		24	#356 4/C Mitsubishi - Offset Lithographic Press with Natural Gas Fired Dryer	2.99	10/11/89
		33	#375 4/C Baker Perkins - Offset Lithographic Press with Natural Gas Fired Dryer	7.86	06/20/94
		54	#344 4/C Harris M-300 - Offset Lithographic Press with Natural Gas Fired Dryer	1.20	04/01/02
REECO ³	25			4.24	08/01/89
		12	#301 4/C Lithoman - Offset Lithographic Press with Natural Gas Fired Dryer	10.5	06/01/05
		14	#335 5/C Toshiba - Offset Lithographic Press with Natural Gas Fired Dryer	2.12	12/01/85
		20	#336 2/C Toshiba - Offset Lithographic Press with Natural Gas Fired Dryer	2.18	02/15/82
		21	#337 5/C Toshiba - Offset Lithographic Press with Natural Gas Fired Dryer	3.67	02/15/84
		51	#340 Harris M-1000 (A) - Offset Lithographic Press with Natural Gas Fired Dryer	2.8	10/15/00
		30	#370 4/C Baker Perkins - Offset Lithographic Press with Natural Gas Fired Dryer	3.29	06/01/93

1. Reflects the emission units (EU) connected to emission point EP50, Geoenergy #1 thermal oxidizer.

2. Reflects the emission units (EU) connected to emission point EP52, Geoenergy #2 thermal oxidizer.

3. Reflects the emission units (EU) connected to emission point EP25, REECO thermal oxidizer.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**APPLICABLE REGULATIONS:**

401 KAR 63:020, Potentially hazardous matter or toxic substances.

401 KAR 52:030 - *Federally enforceable permits for nonmajor sources*. This applies to sources that accept permit conditions that are legally and practically enforceable to limit their potential to emit (PTE) below the major source thresholds that would make them subject to 401 KA 52:020.

1. Operating Limitations:

- a) No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. [401 KAR 63:020, Section 3]
- b) The temperature of each thermal oxidizer's combustion chamber averaged over any three (3) consecutive hours shall be no more than 28°C (50°F) below the average temperature recorded during the most recent performance test which demonstrates compliance.

Compliance Demonstration Method:

The permittee is deemed to be in compliance during printing operations when each of three thermal oxidizers operates as specified in **Specific Control Equipment Operating Conditions 7**.

2. Emission Limitations:

See **Section D.3, Source Emission Limitations** for hazardous air pollutant (HAP) and volatile organic compound (VOC) emission limitations.

Compliance Demonstration Method:

The permittee shall operate the three (3) thermal oxidizers as specified in **Specific Control Equipment Operating Conditions 7**. Also see Section D.3, **Source Emission Limitations**, *Compliance Demonstration Method*.

3. Testing Requirements:

The permittee shall conduct performance tests on each Thermal Oxidizer within 180 days of the date of issuance of this permit, using EPA Method 25A and EPA Method 204 respectively, or Division approved alternatives, to determine the destruction efficiency for volatile organic compounds and hazardous air pollutants.

- a) Pursuant to Section VII 2(1) of the Policy Manual of the Division for Air Quality as incorporated by reference in 401 KAR 50:016, Section 1. (1), the permittee shall submit a compliance test protocol at least one month prior to the projected test date.
- b) Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- c) The permittee shall record information that is necessary to document emission capture system and add-on control device operating conditions during the test and explain why the conditions represent normal operation.
- d) The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature of each thermal oxidizer. This calculated average combustion temperature is the minimum set point for each thermal oxidizer.
- e) The permittee shall use values for destruction efficiency as determined by the most recent performance tests in the compliance demonstration equations of **Section D**.

4. Specific Monitoring Requirements:

- a) The permittee shall monitor the temperature in the firebox of each thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. Compliance shall be demonstrated by monitoring and recording the combustion temperature continuously* and by calculating and recording the 3-hour averages.

**Continuous parameter monitoring shall be a minimum of recording the measured value at least once every 15 minutes.*

5. Specific Recordkeeping Requirements:

- a) The permittee shall maintain records of the following information for each thermal oxidizer:
 - i) The design and/or manufacturer's specifications.
 - ii) The operational procedures and preventive maintenance records.
 - iii) The calibration records for the combustion temperature sensor, validation checks and the subsequent accuracy audits.
 - iv) Maintain a log of visual inspections of each temperature sensor if redundant temperature sensors are not used.
 - v) Maintain a record of the average combustion chamber temperature limit established during the most recent performance test and all relevant supporting data.
 - vi) The combustion chamber temperature of each thermal oxidizer shall be recorded continuously along with the 3-hour averages.
 - vii) Record all periods (during printing operation) in excess of three (3) hours during which the average temperature in any thermal oxidizer used to control emissions from an affected facility remains more than 28°C (50°F) below the temperature at which compliance was demonstrated during the most recent measurement of thermal oxidizer efficiency. See **6. Specific Reporting Requirements** and Section F: F(6), F(7) and F(8).
 - viii) During all periods of operation of each thermal oxidizer in which the 3-hour average combustion temperature in any thermal oxidizer remains more than 28°C (50°F) below the temperature at which compliance was

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

demonstrated during the most recent measurement of thermal oxidizer efficiency in excess of three (3) hours, a daily log of the following information shall be kept:

1. Whether any air emissions were visible from the facilities associated with each thermal oxidizer.
 2. Whether visible emissions were normal for the process.
 3. The cause of the visible emissions.
 4. Corrective action(s) taken shall be recorded.
- ix) If the 3-hour average combustion chamber temperature falls below the operating temperature limit established for each thermal oxidizer by the most recent performance test, then the permittee shall assume a destruction efficiency of zero during the time period of the deviation for the purpose of demonstrating compliance with emission limitations.
- b) The permittee shall keep calendar month records of the usage of ink, non piling additive, fountain solution, blanket wash, roto solvent, and any other VOC/HAP containing material.
- c) At the end of each month VOC and HAP emissions in tons shall be calculated in accordance with Section D.3, Source Emission Limitation. The permittee shall maintain records onsite such that they are readily accessible.
- d) A monthly log of printing press and thermal oxidizer operating hours, the amount of each material used, including purchase orders, invoices, and other documents, to support the quarterly log shall be maintained.
- e) Also see **Section F**.

6. Specific Reporting Requirements:

Reporting of the following shall be done on a semi annual basis:

- a) Any deviations from requirements of **Section B** shall be reported.
- b) The permittee shall identify, record, and submit a written report to the Division's Frankfort Field office for each deviation from the permitted conditions.
 - i) For the thermal oxidizer, of each instance in excess of 3 hours during which the average temperature of the thermal incinerator used to control emissions from an affected facility remains more than 28° C (50° F) below that at which compliance was demonstrated during the most recent measurement of thermal oxidizer efficiency.
- c) If no deviations occur during a particular 6-month period, the permittee shall state this in the semi-annual report required by **General Condition F(6)**.
- d) The VOC, and individual and combined HAP emissions for each month in the

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

semi-annual period determined in accordance with **Section D.3, Source Emission Limitation** shall be reported.

- e) The consecutive 12 month total of VOC, and individual and combined HAP emissions for each month ending in the semi-annual period determined in accordance with **Section D.3, Source Emission Limitation** shall be reported.

7. Specific Control Equipment Operating Conditions:

- a) The permittee shall install, calibrate, maintain, and operate in accordance with manufacturer's specifications a temperature-monitoring device equipped with a continuous recorder in the firebox of the thermal oxidizer or in the duct immediately downstream of the firebox before any substantial heat exchange occurs.
- b) Use a temperature sensor with a measurement sensitivity of 5 degrees Fahrenheit or 1.0 percent of the temperature value, whichever is larger
- c) Before using the sensor for the first time or when relocating or replacing the sensor, perform a validation check by comparing the sensor output to a calibrated temperature measurement device or by comparing the sensor output to a simulated temperature.
- d) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor output to redundant temperature sensors, to calibrated temperature measurement devices, or to temperature simulation devices.
- e) Conduct a visual inspection of each sensor every quarter if redundant temperature sensors are not used.
- f) See **8. Alternate Operating Scenarios.**

8. Alternate Operating Scenarios:

- a) The primary thermal oxidizer used to control VOC/HAP emissions from each lithographic press is as represented in the above table, **Lithographic Printing Presses**. As a backup system, the permittee has created a cross connection between the two Geoenergy thermal oxidizers. This duct connection provides secondary control for the ten presses connected to these two control devices. In the event that one of the two Geoenergy thermal oxidizers fails, the operating presses on that thermal oxidizer shall be diverted temporarily to the other control device. There is no alternate operating scenario for the REECO thermal oxidizer.
- b) The permittee, when making a change from one operating scenario to another, shall record contemporaneously in a log at the permitted facility a record of the scenario under which the facility is operating. The permit shield, as provided in

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Section G shall extend to each alternate operating scenario set forth in this Section. All conditions not specified under an alternate operating scenario shall remain unchanged from their permit values or requirements.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Point Description:

Waste Paper Collection System	EP	EU	Description	Maximum Capacity	Date Installed
	22	22A	Paper baler # 2	Combined 4800 lb/hr of paper trimmings received	1969
	22	22B	Paper baler # 3		1969
	22	22C	Paper baler # 5		1969
	38	38	Cyclone Paper Separator	1,050 lbs/hr	1995

APPLICABLE REGULATIONS:

401 KAR 61:020, *Existing Process Operations* commenced before July 2, 1975 applies to particulate matter (PM/PM₁₀) emissions and visible emissions.

401 KAR 59:010 *New Process Operations* commenced on or after July 2, 1975 applies to particulate matter (PM/PM₁₀) emissions and visible emissions.

1. **Operating Limitations:**

None

2. **Emission Limitations:**

- a) Mass emission limit pursuant to 401 KAR 61:020, Section 3(2)(a): Particulate matter (PM/PM₁₀) emissions from the Paper balers (EP 22) shall be limited based on the following:

For process rates greater than or equal to 1,000 lbs/hr but less than 60,000 lbs/hr, the allowable emissions of particulate matter shall not exceed:

$$4.10 \times (\text{Tons Processed})^{0.67} \text{ lbs/hr.}$$

For processing rates of 1,000 lbs/hr or less, the allowable emission rate is 2.58 lbs/hr.

For EP 22 the maximum allowable emission rate at the corresponding process rate shall be limit to 7.37 lb/hr @4,800 lb/hr.

- b) Mass emission limit pursuant to 401 KAR 59:010 Section 3(2)(a): Particulate matter emissions from the Cyclone paper separator (EP 38) shall be limited based on the following:

For process rates greater than or equal to 1,000 lbs/hr but less than 60,000 lbs/hr, the allowable emissions of particulate matter shall not exceed:

$$3.59 \times (\text{Tons Processed})^{0.62} \text{ lbs/hr.}$$

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

For processing rates of 1000 lbs/hr or less, the allowable emission rate is 2.34 lbs/hr.

For EP 38 the maximum allowable emission rate at the corresponding process rate shall be limit to 2.40 lb/hr.

- c) Opacity limit pursuant to 401 KAR 61:020, Section 3(1)(a): Visible emissions from the Paper balers (EP 22) shall not equal or exceed 20% opacity on a 6-minute average basis.
- d) Opacity limit pursuant to 401 KAR 59:010, Section 3(1)(a): Visible emissions from the Cyclone paper separator (EP 38) shall not equal or exceed 20% opacity on a 6-minute average basis.

Compliance Demonstration Method:

- a) For compliance with the mass emission limits, refer to **3.a Testing Requirements, 4. Specific Monitoring Requirements, and 5. Specific Record Keeping Requirements.**
- b) For compliance with the opacity limits, refer to **3b. Testing Requirements.**

3. Testing Requirements:

- a) If required by the Division, the Permittee shall use EPA Reference Method 5 or Method 17 to determine particulate matter concentration being vented to atmosphere from the Paper balers (EP 22) and Cyclone paper separator (EP 38) to demonstrate compliance with **2a. and 2b. Emission Limitations.**
- b) Pursuant to 401 KAR 61:020 and 59:010, the Permittee shall use EPA Reference Method 9 and the procedures in 40 CFR 60.11 to determine opacity from the Paper balers (EP 22) and Cyclone paper separator (EP 38) to demonstrate compliance with **2a. and 2b. Emission Limitations.** The testing shall be performed annually and the Division reserves the right to require additional testing.

4. Specific Monitoring Requirements:

The permittee shall perform a qualitative visual observation of the opacity of emissions from the Paper balers (EP 22) and Cyclone paper separator (EP 38) at least once per operating month while the units are in operation, and maintain a log of the observations. If visible emissions from the vents are seen, then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

5. Specific Recordkeeping Requirements:

The permittee shall keep the following records in a designated logbook. Records shall be maintained for a minimum of five (5) years:

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- a) Method 5 or Method 17 particulate matter test result, if the test was required by the Division;
 - b) Method 9 opacity test results;
 - c) Monthly visible opacity observation records as specified in **4. Specific Monitoring Requirements.**
- 6. Specific Reporting Requirements:**
- a) The Permittee shall report any exceedances or excursions from emission limitations or operating limitations.
 - b) Refer to **Section F- Monitoring, Recordkeeping, and Reporting Requirements.**
- 7. Specific Control Equipment Operating Conditions:**
None
- 8. Alternate Operating Scenarios:**
None

SECTION C – INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:030, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

Emission Point	Description	Applicable Regulation
EP 36	Natural gas fired Sterling Alton furnace rated at 2.5 mmBtu/hr	401 KAR 59:015
EP 37	Natural gas fired Sterling Alton furnace rated at 2.5 mmBtu/hr	401 KAR 59:015
EP 40	Natural gas fired King furnace rated at 2.2 mmBtu/hr	None
EP 41	Natural gas fired King furnace rated at 0.9 mmBtu/hr	None
EP 45	Natural gas fired unit gas heater rated at 0.24 mmBtu/hr	None
EP 46	Natural gas fired unit gas heater rated at 0.3 mmBtu/hr	None
EP 16A – 16J	Ten Hot melt glue pots	None
EP 28	Spray booth dye for bookends	None
EP 47 & 48	Two (2) diesel fire pumps	None
EP 43	Shrink Wrap operation	None
EP 44	Bookbinding with baghouse	401 KAR 61:020
EP 15	Maintenance Parts Cleaner	None
EP 39	Backup Cyclone (No. 4) and Bailer (No. 4)	401 KAR 59:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030 Section 10, compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Volatile Organic Compounds (VOC) and Hazardous Air Pollutant (HAP) emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
3. **Source Emission Limitations:**
To preclude the applicability of 401 KAR 52:020, *Title V permits*, emissions of any non-HAP regulated air pollutant, as defined in 401 KAR 52:001, Section 1, Definitions, shall not equal or exceed 90 tons per year and total annual source-wide emissions shall not exceed the following specific limitations on a twelve (12) consecutive month basis:
 - a) Volatile organic compound (VOC) emissions shall not equal or exceed 90 tons per twelve (12) consecutive month basis;
 - b) Emissions of any single hazardous air pollutants (HAP) shall not exceed 9 tons per twelve (12) consecutive month basis; and
 - c) Emissions of combined hazardous air pollutant (HAPs) shall not exceed 22.5 tons per twelve (12) consecutive month basis.

Compliance Demonstration Method:

The permittee shall comply with the above source emission limitations by calculating the total monthly and consecutive twelve month VOC, single HAP and combined HAPs emission rates as shown below. The calculations shall be completed by the end of the month following the month in question and the consecutive 12-month totals include the totals for the month in question plus the totals for the previous 11 month period (e.g., for the month January, the compliance demonstration shall be completed in February and shall include all data from February of the previous year to the last day of January).

- a) **VOC Emissions:**
 - i. The following formula or equivalent may be used in calculating emissions of VOC's from ink:
$$\text{VOC emitted (tons)} = \Sigma \{ \text{gallons of ink} \times \text{VOC content of ink (lbs/gal)} \times 0.8 \times (1 - \text{control efficiency of the thermal oxidizers}) \times 1 \text{ ton VOC}/2000 \text{ lb VOC} \}$$
 - ii. The following formula or equivalent may be used in calculating emissions of VOC's from fountain solution:

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

VOC emitted (tons) = Σ {gallons of **fountain solution** concentrate x VOC content of **fountain solution** concentrate (lbs/gal) x 0.7 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **fountain solution** concentrate x VOC content of **fountain solution** (lbs/gal) x 0.30} x 1 ton VOC/2000 lb VOC

- iii. The following formula or equivalent may be used in calculating emissions of VOC's from clean up solvent (Auto Blanket Wash ABW):

VOC emitted (tons) = Σ {gallons of **ABW** x VOC content of **ABW** (lbs/gal) x 0.4 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **ABW** x VOC content of **ABW** (lbs/gal) x 0.60} x 1 ton VOC/2000 lb VOC

- iv. The following formula or equivalent may be used in calculating emissions of VOC's from clean up solvent (Manual Blanket Wash MBW):

VOC emitted (tons) = Σ {gallons of **MBW** x VOC content of **MBW** (lbs/gal) x 0.50} x 1 ton VOC/2000 lb VOC

- v. The following formula or equivalent may be used in calculating emissions of VOC's from Non piling additive:

VOC emitted (tons) = Σ {gallons of **Non piling additive** x VOC content of **Non piling additive** (lbs/gal)} x 1 ton VOC/2000 lb VOC

- vi. The following formula or equivalent may be used in calculating emissions of VOC's from Non piling additive:

VOC emitted (tons) = Σ {gallons of **Roto solvent** x VOC content of **Roto solvent** (lbs/gal)} x 1 ton VOC/2000 lb VOC

VOC emissions determined by formulas (i) through (vi) or equivalent shall be summed and used to demonstrate compliance with the emission limitations listed for each affected facility(s).

Annual VOC emission rate (tons) = Σ [VOC emission this month (tons) +total VOC emissions past consecutive eleven (11) months (tons)]

b) Single HAP Emissions:

- i. The following formula or equivalent may be used in calculating emissions of single HAP from ink:

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

Single HAP emitted (tons) = Σ {gallons of **ink** x single HAP content of **ink** (lbs/gal) x 0.8 x (1-control efficiency of the thermal oxidizers)} x 1 ton single HAP /2000 lb single HAP

- ii. The following formula or equivalent may be used in calculating emissions of single HAP from fountain solution:

Single HAP emitted (tons) = Σ {gallons of **fountain solution** concentrate x single HAP content of **fountain solution** concentrate (lbs/gal) x 0.7 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **fountain solution** concentrate x single HAP content of **fountain solution** (lbs/gal) x 0.30} x 1 ton single HAP /2000 lb single HAP

- iii. The following formula or equivalent may be used in calculating emissions of single HAP from clean up solvent (Auto Blanket Wash ABW):

Single HAP emitted (tons) = Σ {gallons of **ABW** x single HAP content of **ABW** (lbs/gal) x 0.4 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **ABW** x single HAP content of **ABW** (lbs/gal) x 0.60} x 1 ton single HAP /2000 lb single HAP

- iv. The following formula or equivalent may be used in calculating emissions of single HAP from clean up solvent (Manual Blanket Wash MBW):

Single HAP emitted (tons) = Σ {gallons of **MBW** x single HAP content of **MBW** (lbs/gal) x 0.50} x 1 ton single HAP /2000 lb single HAP

- v. The following formula or equivalent may be used in calculating emissions of single HAP from Non piling additive:

Single HAP emitted (tons) = Σ {gallons of **Non piling additive** x single HAP content of **Non piling additive** (lbs/gal)} x 1 ton single HAP /2000 lb single HAP

- vi. The following formula or equivalent may be used in calculating emissions of single HAP from Non piling additive:

Single HAP emitted (tons) = Σ {gallons of **Roto solvent** x single HAP content of **Roto solvent** (lbs/gal)} x 1 ton single HAP /2000 lb single HAP

Single HAP emissions determined by formulas (i) through (vi) or equivalent shall be summed and used to demonstrate compliance with the emission limitations listed for each affected facility(s).

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

Annual single HAP emission rate (tons) = Σ [single HAP emission this month (tons) + total single HAP emissions past consecutive eleven (11) months (tons)]

c) Combined HAPs Emissions:

- i. The following formula or equivalent may be used in calculating emissions of combined HAP from ink:

Combined HAP emitted (tons) = Σ {gallons of **ink** x combined HAP content of **ink** (lbs/gal) x 0.8 x (1-control efficiency of the thermal oxidizers)} x 1 ton combined HAP /2000 lb combined HAP

- ii. The following formula or equivalent may be used in calculating emissions of combined HAP from fountain solution:

Combined HAP emitted (tons) = Σ {gallons of **fountain solution** concentrate x combined HAP content of **fountain solution** concentrate (lbs/gal) x 0.7 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **fountain solution** concentrate x combined HAP content of **fountain solution** (lbs/gal) x 0.30} x 1 ton combined HAP /2000 lb combined HAP

- iii. The following formula or equivalent may be used in calculating emissions of combined HAP from clean up solvent (Auto Blanket Wash ABW):

Combined HAP emitted (tons) = Σ {gallons of **ABW** x combined HAP content of **ABW** (lbs/gal) x 0.4 x (1-control efficiency of the thermal oxidizers)} + Σ {gallons of **ABW** x combined HAP content of **ABW** (lbs/gal) x 0.60} x 1 ton combined HAP /2000 lb combined HAP

- iv. The following formula or equivalent may be used in calculating emissions of combined HAP from clean up solvent (Manual Blanket Wash MBW):

Combined HAP emitted (tons) = Σ {gallons of **MBW** x combined HAP content of **MBW** (lbs/gal) x 0.50} x 1 ton combined HAP /2000 lb combined HAP

- v. The following formula or equivalent may be used in calculating emissions of combined HAP from Non piling additive:

Combined HAP emitted (tons) = Σ {gallons of **Non piling additive** x combined HAP content of **Non piling additive** (lbs/gal)} x 1 ton combined HAP /2000 lb combined HAP

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

- vi. The following formula or equivalent may be used in calculating emissions of combined HAP from Non piling additive:

Combined HAP emitted (tons) = $\Sigma \{ \text{gallons of } \mathbf{Roto \ solvent} \times \text{combined HAP content of } \mathbf{Roto \ solvent} \text{ (lbs/gal)} \} \times 1 \text{ ton combined HAP /2000 lb combined HAP}$

Combined HAP emissions determined by formulas (i) through (vi) or equivalent shall be summed and used to demonstrate compliance with the emission limitations listed for each affected facility(s).

Annual **combined** HAPs emission rate (tons) = $\Sigma [\text{combined HAPs emission this month (tons)} + \text{total combined HAPs emissions past consecutive eleven (11) months (tons)}]$

- d) For the formulas above, the control efficiency of the thermal oxidizers shall be 98% as demonstrated by performance test on January 2002, or other efficiency established during a more recent performance test.
1. A control efficiency of 0% shall be used when the presses are operated without the emissions directed to a thermal oxidizer.
 2. A control efficiency of 0% shall be assumed for all periods the thermal oxidizers are receiving emissions from the presses during which, for a period of 3 hours or more, the average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer during the most recent performance test.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

1. Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:030 Section 3(1)(f)1a and Section 1a (7) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
3. In accordance with the requirements of 401 KAR 52:030 Section 3(1)f the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:030 Section 22. All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.5 [Section 1b V(3) and (4) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
9. Pursuant to 401 KAR 52:030, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, Suite B,
Frankfort, KY 40601

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:030, Section 3(1)(d), the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee. If a KYEIS emission report is not mailed to the permittee, the permittee shall comply with all other emission reporting requirements in this permit.
11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.
12. The Cabinet may authorize the temporary use of an emission unit to replace a similar unit that is taken off-line for maintenance, if the following conditions are met:
 - a. The owner or operator shall submit to the Cabinet, at least ten (10) days in advance of replacing a unit, the appropriate Forms DEP7007AI to DD that show:
 - i. The size and location of both the original and replacement units; and
 - ii. Any resulting change in emissions;
 - b. The PTE of the replacement unit shall not exceed that of the original unit by more than twenty-five (25) percent of a major source threshold, and the emissions from the unit shall not cause the source to exceed the emissions allowable under the permit;
 - c. The PTE of the replacement unit or the resulting PTE of the source shall not subject the source to a new applicable requirement;
 - d. The replacement unit shall comply with all applicable requirements; and
 - e. The source shall notify Regional office of all shutdowns and start-ups.
 - f. Within six (6) months after installing the replacement unit, the owner or operator shall:
 - i. Re-install the original unit and remove or dismantle the replacement unit; or
 - ii. Submit an application to permit the replacement unit as a permanent change

SECTION G - GENERAL PROVISIONS(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. A noncompliance shall be a violation of 401 KAR 52:030, Section 3(1)(b) and is also a violation of Federal Statute 42 USC 7401 THROUGH 7671 Q(THE Clean Air Act) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this [Section 1a (2) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a (5) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:030, Section 18. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:030, Section 12;
 - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

SECTION G - GENERAL PROVISIONS (CONTINUED)

5. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a (6) and (7) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
6. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:030, Section 7(1)].
7. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a (11) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
8. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a (3) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
9. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a (12)(b) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
10. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a (9) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
11. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:030, Section 11(3)].
12. This permit does not convey property rights or exclusive privileges [Section 1a (8) of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 10].
13. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency.

SECTION G - GENERAL PROVISIONS (CONTINUED)

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry.
15. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency.
16. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
17. Permit Shield – A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
 - a. Applicable requirements that are included and specifically identified in this permit; and
 - b. Non-applicable requirements expressly identified in this permit.
18. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:030 Section 3(1)(c)].
19. The authority to operate granted through this permit shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:030 Section 8(2)].

(b) Permit Expiration and Reapplication Requirements

This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:030, Section 12].

(c) Permit Revisions

1. Minor permit revision procedures specified in 401 KAR 52:030 Section 14 (3) may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:030, Section 14 (2).

SECTION G - GENERAL PROVISIONS (CONTINUED)

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

- (d) Construction, Start-Up, and Initial Compliance Demonstration Requirements

No construction authorized by this permit.

- (e) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

- (f) Emergency Provisions

1. Pursuant to 401 KAR 52:030 Section 23(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. Pursuant to 401 KAR 52:030, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
2. Notification of the Division does not relieve the source of other local, state or federal notification requirements.
3. Emergency conditions listed in General Condition G(f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:030, Section 23(3)].
4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:030, Section 23(2)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

SECTION H - ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

None